

EN60K3

Wall 60kW DC Fast charger

Product information

Charging station - EN60K3 is used for fast charging electric vehicles with direct current with CCS 2 standard or CHAdeMO standard. The unit can be easily mounted to the wall or a column and it was equipped in touchscreen with user-friendly interface. The product features high efficiency, power and reliability, as well as environmental resistance of IP55. The unit offers a charging voltage range from 150V to 1000V with a constant output power of 60kW. The EN60K3 charger has a number of possible socket, system and accessories configuration while also it complies with 2014/94/EU directive.



Functionality

- CCS-2, CHAdeMO support
- OCPP 1.6J, DIN/ISO15118 support and OCPP 2.0 with ISO15118-20 after update
- CE EMC B class support and UL certificate
- User-friendly interface with 7" LCD touch screen
- RFID and cashless payment support,
- LAN and LTE support
- Optional AC charging cable and configurable sockets
- Full insulation between grid, battery and vehicle
- Possibility of installing on the wall or a suitable column
- Full compatibility with different system configurations

Basic parameters

- DC output power 60kW
- AC output power 22kW (optional)
- Efficiency under full-load $\geq 95\%$

Safety

- Compliance with CE, UL2202, EN61000-6-4, EN61000-6-3, EN61000-6-2, EN61000-6-1 B class; EN 61851-1/EN 61851-23/EN 61851-24
- Compliance with EN 61851-1-2019; EN 61851-23-2014; EN 61851-24-2014

Applications

- Workshops
- Parking lots
- Garages
- Houses

Specification

Parameter		Value
AC Input–basic parameters	Input voltage	260VAC – 530VAC (3 phase + N + PE)
	Frequency range	45 – 65 Hz
	Power factor	> 0.99
	THD	< 5%
Output parameters	DC voltage accuracy	< ± 0.5%
	DC voltage range	150V – 1000V
	Max current DC	60A/1000V, 80A/750V, 120A/500V, 200A/300V; max. current 200A for CCS socket and 125A for CHAdeMO socket
	Max power	60kW
	Max efficiency	>95% (output-input)
	Input AC (optional)	AC type 2, 22kW/32A
Working environment	Ambient temperature	-30 ~ +70°C, (full power < 45°C, power lowers by 5%/°C above 45°C)
	Storage temperature	-40 ~ +75°C
	Humidity	0 ~ 95%
	Altitude	2000m
Standards	CCS PLC communication	DIN70121 i ISO 15118, ISO 15118-20 supported in SW update
	CHAdeMO	CHAdeMO V1.2, EVPOSSA, CHAdeMO V2.0, supported in SW update
	EMC/ safety	UL2202, CE, EN61000-6-3/EN61000-6-1 B class; EN 61851-1/ EN 61851-23/ EN 61851-24, EN 61643-11 (II class)
	Network connection/ V2G	VDE-AR-N 4105, UL1741SA/SB, G99, Plug&Charge service
	Level of protection	IP55/IK10
Features and interface	HMI	TFT touchscreen LCD 7" with tempered glass, status LED lights (alarm, power connection, charging, discharging)
	Energy meters	2 DC energy meters, DL/T 5137-2008 standard, optional VDE and PDB certificate
	Communication interface	OCPP 1.6J, LAN 10M/100M and optional internal wireless LTE modem, OCPP 2.0, compliance with EN 301489-1 V 2.2.0:2017, EN 301489-52V 1.1.0:2016, EN 301489-3V 2.2.2:2017, EN 301908-2V 11.1.2:2017, EN 301511 V 12.5.1:2017, EN 30033V 2.2.2:2017, EN 50364:2001, ISO 14443 A/B,
	Charging modes	Automatic full charging, Time charging, Partial charging, Charging a specific amount of energy, Charging to a specific SOC
Parameters	Dimensions	1100 * 705 * 240 mm
	Mass	150 kg (with 3 modules and 3 possible connector configurations)
Protection	Over-current protection, short-circuit protection, over-voltage protection, under-voltage protection, insulation monitoring, ground monitoring, common ground protection for the output of two charging plugs, reverse polarity battery protection, overheat protection	
Configurations	Modules	Two 1000V charging modules - 30kW
	Connectors	2 CCS-2, CCS-2 + CHAdeMO, Kabel AC typ2 –5 m cables
	Connectors parameters	200A/1000V for CCS, 125A/500V for CHAdeMO, 32A for AC typ2

* the manufacturer reserves the right to change the appearance and parameters of the product

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